

Patent Claims:

1. An electromechanically operable disc brake for motor vehicles comprising a brake caliper and an actuator arranged at the brake caliper, with two friction linings cooperating with each one lateral surface of a brake disc, with at least one of the friction linings being movable into engagement with the brake disc by way of the actuator, and the actuator having an electric motor that is driven by means of an electronic control and regulation unit,
characterized in that the control and regulation unit is arranged at the actuator.
2. The electromechanically operable disc brake as claimed in claim 1,
characterized in that the control and regulation unit is thermally uncoupled from the actuator.
3. The electromechanically operable disc brake as claimed in claim 2,
characterized in that the thermal uncoupling is achieved by means of spacers between the actuator and the control and regulation unit.
4. The electromechanically operable disc brake as claimed in claim 1,
characterized in that the electric connection between the control and regulation unit and the actuator is provided as a plug coupling.

5. The electromechanically operable disc brake as claimed in claim 3 or 4,
characterized in that the control and regulation unit is connected to the actuator in such a fashion that their separation is only possible with special tools.

6. The electromechanically operable disc brake as claimed in claim 2,
characterized in that both the actuator and the control and regulation unit are designed as subassemblies that can be independently handled and tested.